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LT.-COL. W. P. C. TENISON, D.S.O.

[Russian literature by Professor A. I. Ivanov]

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Abdulali, H. A new white-throated race of the babbler *Dumetia hyperythra*. J. Bombay nat. Hist. Soc. 56 : 333-335.

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[**Aleksandrova, N. A.** On problem of sensitive innervation of the bird oesophagus]. Bull. Chitin. Irkutsk Otd. Obsch. Anatom. Gistol. Embriol. 2 : 48-52. [In Russian].

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Migration: General.—Transmigrants, **Blake**, C. H.; Historical background, **Cooke**; Bird observations, **Cornwallis** (1); Physiological aspects, **Curry-Lindahl**; Winter invasions, **Dickerman**; Land-birds on board ship, **Fischer**; The loss of water in winter drifted migratory birds, **Eliassen** & **Hjelmtredt**; An audio technique for study at night, **Graber** & **Cochran**; Study by radar, **Harper**; Sparrow weight and fat before and after a night of migration, **Helm**; Orientation over the sea in fog, **King**, J. M. B.; Shape of wings theory, **Kipps**; Recent experiments, **Kramer** (1); A zoogeographical aspect, **Kumari**; Watching by radar, **Lack** (1), (3); Across the sea, **Lack** (4); Breeding distribution of North America migrants, **MacArthur**; Physiological research, **Merckel**; Transatlantic waders, **Nisbet**; Calculation of flight directions observed crossing the moon, **Nisbet** (3); Thyroid cycle, **Oakeson** & **Lilley**; Sources of error in bird-ringing studies, **Phillips**, A. R.; Rumanian text-book, **Rudescu**; Yearly rhythm, **Schildmacher** (1); Ringing progress and prospects, **Spencer**, R. (1); Cerebellar physiology, **Schreiber** & others (1); History of British studies, **Thomson**, A. L.; Orientation in migrating marine animals, **Verwey**; Celestial orientation, **Verwey** (1); Role of light, **Wolfson**; Role of light in photoperiodic responses, **Wolfson** (3).

Migration: Single species.—Oystercatcher, **Andrew**, D. G.; Quail near Tashkent, **Meklenburg** (1); Geese, **Schildmacher**.

Migration: Regional Observations.—Kursk region, **Alekseev**; Narragansett Bay, R.I., **Baird** & **Nisbet**; Netherlands, **Beaufort** & others; Middle East, **Bourne**; Lengeoog, Bavaria, **Breuer**; British winter visitors, **Cornwallis**, **Goodacre**; Belgium, **Dambiermont**, **Rappe** (1); Italy, **Favero**, **Valentini**; E. Transbaikial, **Gavrin** & **Rakov**; Swiss

Alps, **Géroutet**, **Vuilleumier**; Valassaret I., Gulf of Bothnia, **Hildén**; Cape Shiriya, Japan, **Ishizawa**; Western approaches, **McLean** & **Williamson**; Note on far East migrations, **McClure**; Problems of migration across Morocco, **Moreau**; N.E. Norfolk, **Murton**; Norwegian study, **Myrberget**; Ithaca, N.Y., **Nisbet** (2); Denmark, **Rosenberg**; Khanaqin, Iraq, **Sage** (1); Eastern Iraq, **Sage** (3); Waterfowl on Zaisan lake, **Samusev** (1); Southwest African experiments, **Sauer**, F. & E.; 40 years in Connecticut, **Saunders**; N.W. coast of Africa, **Sick** (5); Estonia, **Thomson**, E.; Falsterbo, Sweden, **Ulfstrand** (1); Waterfowl hibernation on Sea of Azov and Black Sea, **Uspenski** & others; Switzerland **Willi** (1), **Willi** & **Leuthold**; September drift-movements in Great Britain, **Williamson**, K. (2).

Bird-Ringing: Methods.—Bal-chatri trap for birds of prey, **Berger**, D. D. & **Mueller**; A method for opening nesting holes, **Erskine**; Nylon nets, **Holtman** & others; Colour marking of geese, **Kozlik** & others; Mist nets, **Kuyava**; Swedish trap for small birds, **Lindberg**; Trapping of geese, **Spangenberg** & **Leonovich**; At Point Pelee, Ontario, **Woodford**.

Bird-Ringing: Results.—Tunisia, **Arnould** & others; U.S.A. Atlantic coast, **Baird**, **Bagg**, **Nisbet** & **Robbins**; Australia, **Carrick**, **Hitchcock** & **Carrick**; Sweden, **Danielsson**; Wigean in Europe, **Donker**; Sweden, **Fontaine**; Camargue, **Hoffmann**, L. (2); Norway, **Holgersen** (1); Giant Petrels, **Ingham**; Estonia, **Iygi**; Tartu, Estonia, **Jogi**; Minnesota, **Johnson**, C. M. & **Strnad**; Netherlands, **Kate** & **Taapken**; Game-bird marking in Finland, **Koskimies** & **Rajala** (1); Yugoslavia, **Kroneisl-Rucner**; Great Britain, **Leach**, **Spencer**, R.; France, **Lucas**; Finistère, **Maillet** & **Julien**; Warblers at Knaresborough Sewage Farm, **Mather**; Finland, **Nordström** (1); Morocco, **Panouse** & others; Greenland, **Salomonsen** (1); Switzerland, **Schifferli**; West Africa, **Sharland** & **Harris**; Waterfowl in U.S.S.R., **Shevareva**; Ibises and Herons in U.S.S.R., **Skokova**; Poland, **Szczepski**; Netherlands, **Taapken**; Brent Goose, in U.S.S.R., **Uspenski**, S. M.; Belgium, **Verheyen** (9); South Africa, **Vincent**.

Ecology: Regional Studies.—Tidal flats, **Baan**; Finland study, **Bergman**; Breeding-birds of open-cast mining area, **Brewer**; South African estuaries, **Broekhuysen** & **Taylor**; Deltas, **Brujins** (4); Texas scrub desert, **Dixon**; St. Lawrence I., Alaska, **Fay** & **Cade**; New Zealand sand country, **Falla**; New Zealand sea-bird colonies, **Gillham**, M. E.; Fishponds in Hungary, **Horváth**; Gravel and birds, **Key** (1); Bihar mountains, Hungary, **Korodi Gál**; Oak forests in forest-steppe zone, **Novikov**; Effect of forest fire in New Zealand, **Riney** & **Batcheler**; Belgium, **Ruwet**; Sea colonial birds, **Uspenski**, S. M. (1); Spanish steppes, **Valverde** (1); Valley of Chu river, **Yanushevich** & **Fedyanina**; Kyzylkum desert, **Zakhidov**.

Population Studies.—Winter census on the Wash, **Ballance** & **Scott**, G. L.; Census from trains, **Brujins** (1); Waterfowl in Europe, **Burchhardt**; Dynamics study, **Derramond**; In German industrial town, **Erz**; Swiss water-birds, **Géroutet** (4); Great Crested Grbe, **Hollom**; Winter bird census in Finland, **Koskimies** & **Rejala**; Methods, **Linkola**; Assessment at sea, **Mercer**; A Japanese study, **Royama** (2); A sanctuary in Illinois, **Stine**; Hummingbirds, **Van Riper**; High-level woodlands, **Yapp**.

Conservation.—British bird protection, **Barclay-Smith**; Bird-catching in Italy, **Bassini**; French

Oceania, **Berilloz** (6); Insecticide poisoning, **Bernard**; Saxony, **Berndt & Merker**; Storks in Alsace, **Bloesch**; South Australia, **Boehm** (1); Wildfowl in Netherlands, **Braaksma & Bruijns**; Oil menace on Dutch coasts, **Bruijns** (3); Falcons, **Brüll**; United States of America, **Butcher**; Birds of prey in France, **Dambiermont** (1); Vanishing birds of India, **Daniel**; Oil pollution, **Dennis**; Rest places for migrants, **Duve**; Text-book, **Gabrielson**; Artificial nests for swallows and swifts, **George, J.** (1); Disappearing species, **Gerlach**; Saxony, **Hahn**; Game birds in Denmark, **Hammer & others**; Effect of pesticides, **Harmsen & others**; American Bird Protection, **Kalmbach**; Flushing bars to reduce mortality of pheasants in hayfields, **Klonglun, Robbins & Ridley**; New York State, **Levine**; Bird netting in Japan, **McClure**; Nesting boxes in Polish forests, **Mackowicz & Sokolowski**; Nesting encouragement in Estonia, **Masing & Laasimer**; Sea birds, **Meise**; Waterfowl in U.S.A., **Morgan**; Waterbirds in New Zealand, **Newcombe**; Protection of birds of prey, **Olivier** (4); Black-headed Gulls and Terns, **Rooth**; South African reserves, **Rudebeck**; Coot-waterfowl relations on Utah marshes, **Ryder** (1); Northern India, **St. Croix**; Indonesia, **Setyodiviryo**; Hungary, **Vertse**; Kenya live bird trade, **Williams, J.**

Economics.—Pollen carried by migrants, **Ash**; Russian useful birds protection, **Blaghosklonov**; Bird protection and pest control, **Boettger**; Importance of pigeons in towns, **Bruns** (1); Birds as dangers to aircraft, **Bruns** (8); Edible-nest collecting, **Chein Hoe, Sims**; Crow trap, **Dungan**; Birds and pests of beet, **Fedorenko**; Birds and forestry, **Grimshaw & others**; Decline of Red Grouse, **Jenkins, D.**; Value of bird protection against *Tortrix*, **Keil**; Raptorial birds and rodents in steppe, **Kubantsev**; Breeding selection, **Kushner**; Birds of prey, N. Yakutia, **Labutin**; Goosander predation, **Lindroth, Lindroth & Bergstöm**; Eagles and lambs on Lewis, **Lockie & Stephen**; Argentinian guano islands, **Lopez**; Starling plague, **Manzoni**; Australian wild ducks as mosquito predators, **Marks & Lavery**; Gulls and spawning salmon, **Mossman**; Peru guano islands, **Murphy**; Destruction of Gypsy Moth by birds, **Naumov**; Results of pheasant rearing in Denmark, **Paludan**; Control of pigeons in Hamburg, **Reinke**; Edible birds' nests, **Sims** (1); Fish-eating birds, Ukraine, **Smogorzhevski**; Sparrow control in Hungary, **Stegman**; Insecticide poisoning, **Sterbetz** (2); Principles of biological control, **Sweetman**; Mining moth control by birds, **Szöcs**; Harmful birds in Chile, **Valenzuela**; Forestry avifauna in Korea, **Won & Woo** (1).

Introduction and Naturalization.—Hand-reared Mallard in Canada, **Boyer**; British Columbia, **Carl & Guiguet**; In Britain, **Fitter** (1); In Western Australia, **Jenkins, C. F. H.**; European starling in California, **Reuther** (1), **Rainey & others**; House Sparrow in Brazil, **Sick** (9); Birds in steppe regions, **Uspenski & Treus**; House Sparrow in Mexico, **Wagner** (2).

Aviculture.—Antwerp Zoo, **Berg, Carpentier**; Bird hunting in Trinidad, **Conway** (1); Albatrosses, **Frings**; Waders, **Frisch** (1), **Hoesch**; Paris zoo, **Nouvel & others**; Immunization of pheasants against botulism, **Rosen**; Wildfowl Trust collection, **Scott & Boyd**; Lovebirds and parrotlets, **Vane**; Colour feeding of carotenoids, **Wackernagel**.

Longevity.—Crousax; House Sparrow 13 years old, **Dexter**; In injured Scrub Jay, **Haderlie**; Heron 24 years old, **Viré**.

Parasites.—New species of *Petasiger* from Cormorant, **Ablasov & Iksanov**; Parasites of Waders, **Belopol'skaya**; Nematodes, **Belopol'skaya**; Chat parasitised by tick, **Bleitz**; Mites and fleas, **Butenko**; Fleas from nests, **George, R. S.**; Waders, Waterfowl and Shorebirds in Kaliningrad region, **Golikova**; Helminths of White-tailed Eagle, **Golovin**; Trematoda of waterfowl, **Gubanov & Ryzhikov**; Checklist and bibliography of insects in birds' nests, **Hicks**; Argasidae ticks on desert birds, **Ismagilov & Ushakova** 0; In ducks, **Lapage, Soulsby**; Destroying swallow broods, **Mester** (2); Invertebrates in nests of Prairie Warbler, **Nolan**; Blow flies, **Nuorteva**; Living nematodes within hen's eggs, **Parkes** (2); Helminths of fish-eating birds, **Shigin**; Gnats, **Shilova & Troitski**; Dynamics of parasitic fauna of Chaffinch, **Sokolov**.

Enemies and Defence.—Gulls attacking migrants, **Colston & others, Hobbs**; Hummingbirds attacked by wasps, **Grant, J.**; Fights at nesting-boxes, **Hanstrom**; Nesting Woodpeckers and snakes, **Kilham** (4); Frogs and fledglings, **Nordström** (2); Jay killed by weasel, **Perrins**; Goshawk and pigeons, **Pielowski**; Pigeons and Jackdaws, **Psenner**; Migrant passerines attacked by gulls, **Rushforth**; Woodpecker rivalry, **Schwab & Monnie**; Hawks fighting, **Witkowski** (2).

Pathology and Disease.—Egipitanellosis, **Bassini** (1); Isolation of *Aspergillus*, **Beer**; Hungarian epidemics, **Beretzk** (2); Pigeons in towns, **Bruns** (5); Tuberculosis loss of toes, **Harrison, J. G. & Hay**; English wild birds, **Jennings**; Tumour, **Kayser**; Warty legs, **Mester** (3); Ornithosis research in Australia, **Miles**; *Pasteurella* in magpie, **Mykytowycz & Davies**; *Leptospyras* from Little Crake, **Nasibulina & Blagodarnyi**; Golden Eagle with tuberculosis, **Waterston**.

Mortality.—Tit stung by bees, **Almond**; Road deaths, **Bruijns** (2); Spring snow-storm effect on migratory birds, **Gagarin & others**; Salt-encrustation of ducks, **Hall, H. G.**; Mass death of Starlings, **Lebedeva**; Nestling tits killed by woodpecker, **Mountfort**; Smog, **Peet**; Experiments with snake venom, **Russell & Emery**; From oil, **Sapozhenkov**; Mutton-birds, **Sefton** (1); Insecticide experiment, **Stempel**; Effect of spring snowfall, **Sukhinin**.

III.—DISTRIBUTION

(a) GEOGRAPHICAL

PALAEARCTIC REGION

England.—Yorkshire, **Chislett, Jackson, R. V., Skinner, Spencer**; Lancashire, **Spencer, K. G.**; Liverpool, **Unsworth**; West Midlands, **Lord**; Warwickshire, **Bradford**; Cotteswold, **Charteris & Swaine**; Cambridgeshire, **Oakley**; Bedfordshire, **Gribble, Key**; Suffolk, **Anon.**; Lowestoft, **Jenner**; Essex, **Tutt**; Bishop's Stortford, Essex, **Hutchin, Weedy**; Hertfordshire, **Lloyd-Evans, Sage**; Berkshire, **Field, Green, Huddart**; Middlesex, **Bedford, Pollard**; Kent, **Holroyde**; Hampshire, **Cohen, E.**; Isle of Wight, **Stafford**; Wiltshire, **Peirson**; Newbury District, **Anderson, L. F., Summers-Smith, D.**; Bristol, **Anon.** (4); Devon, **S.**

Wales.—Cardiganshire, **Peach**; Pembrokeshire, **Barrett** (1).

Scotland.—Berwickshire, **Home, Long & Murray**.

Ireland.—O **Ruadhain**; Aran Is., **Barrett**; Co. Armagh, **Neshitt**; Co. Kerry, **Harrop**; Belfast area, **Brown, J. J.**; Rathlin I., **Port**.

Smaller British Islands.—North Rona, Bagenal & Baird ; St. Kilda, Williamson, K. ; Farne Is., Hickling ; Isle of Man, Brun, E. ; Scilly Is., Parslow.

Channel Islands.—Jersey, Graham, C. S. & others.

France.—Germain & Seguy ; West France, Kowalski ; Alps, Deleuil ; Brittany, Barloy, Gautier & others ; Camargue, Penot, Festetics, Hoffmann, Williams, G. ; Champagne, Labitte ; Dinard (I.-&V.), Brosselin & Julien ; Eure, Brosse ; Ile Dumet, Labitte & Langetif.

Belgium.—Cuypers, Lippens, Mostmans, Nef, Parijs, Ruwet, Wortelaers, Verheyen ; Spa, Rappe ; Limburg, Janssen.

Netherlands.—Baan, Broeksma & others, Hellebrekers, Japin & Velden, Kist, Lebrecht, Smith & Voous, Tjittes, Reine, Oord, Hooger & Kluijver, Rooth, Spaans, Kate, Kate & Taapken, Taapken ; Marken, Braksma.

Denmark.—Blume, Johansen, Pedersen, Preuss ; Poulsen, C. M., Rosenberg.

Sweden.—Danielsson, Nagell & others, Tyler, Holmberg, Lennerstedt & Ulfstrand, Lundell, Lundevall, Lundin, Markgren, Markgren & Lundberg, Jonsell, Smalander, Sollenberg, Ulfstrand, Vaucher (1) ; Krankesjön, Ulfstrand ; Idre, Karvik ; Lapland, Burton & Webbe ; Uppland, Lundin.

Norway.—Bernhoft-Osa, Haftorn, Hornslien, Myrberget, Nicolaisen, Westerskov, Krogh ; Peter I's I., Holgersen.

Finland.—Antonen, Back, Casén, Hildén, Hakala, Jahnukainen, Lind, Rajala, Hayrinen & Mikkola, Mikkola, Räsänen, Sürä, Kalela (1), Linkola, Koskimies & Rajala, Nicholson, Nordstrom, Silvola, Törnroos, Valtonen, Vaucher.

U.S.S.R. General Works.—Kirikov, Novikov, Shevareva, Skokova.

U.S.S.R. European Territory.—Polar Urals, Danilov ; Mid-Urals, Kuznetsov ; Arctic zone, Uspenski, S. M., Uspenski, S. M. (1) ; Belorussia S.S.R., Golodushko ; Central parts, Alekseev, Mal'chevski, Tattar, Semago, Barabash-Nikiforov ; Ukraine, Smogorzhevski ; Volga delta, Lugovoi ; Sea of Azov, Oleinikov & Danilova, Uspenski & others ; White Sea, Spangenberg & Leonovich ; Perm region, Samarín ; Estonia, Kumari, Onno, Randla, Tamm.

U.S.S.R. Caucasus.—Beme, Bernatski, Gusev & Stegman, Kotov, Krivosheev & Stapanyan, Martiroyan.

U.S.S.R. Siberia.—Yakutia, Egorov, Egorov & Perfil'ev, Labutin, Larionov, Sdobnikov ; Transbaikalia, Filonov, Gavrin & Rakov, Izmailov & Khankhasaev, Izmailov & Prokof'ev ; Krasnoyarsk region, Fedosenko, Syrozchovski & Rogacheva ; Novaya Zemlya, Uspenski ; Barents Sea, Belopolski.

U.S.S.R. Middle Asia.—Turkestan and Kazakhstan.—Kazakhstan, Kubantsev, Lesnyak, Panchenko, Samusev (1), Spangenberg, Vihokurov ; Kirghizia, Gagarin & others, Kydyraliev, Stepanyan, Stepanyan (1), Stepanyan (2), Spangenberg & Sudilovskaya, Yanushevich, Yanushevich & Fedyanina, Yanushevich & others ; Uzbekistan, Meklenburtssev, Meklenburtssev (1) ; Turkmenia, Rustamov & Mustafae, Sukhinin,

Sukhinin (1) ; Tadzikistan, Potapov ; Usturt plateau, Dubrovski.

Poland.—Brzek, Dyrce, Dubicka, Feren, Przybyla & Szaski, Sokolowski, Jurczyk, Mierzwiński, Poradowski, Mrugasiewicz & Wolki, Nowak, Riabinin, Sokolowski, Lukaszewicz, Tomek (1), Szczepski & Szczepka.

Switzerland.—Blotzheim, Blotzheim & Sanwarz, Géroudet, Hertig, Schifferli, Willi ; Tessin, Corti.

Germany.—Bauer, W., Bub, Fehring, Hennings, Bruns & Nocke, Oelke, Peitzheim, Reinsch, Rettig, Frieling, Holscher, Muller & Petersen, Müssel, Semmler, Steiner (1), Tenuis, Wulf, Ringleben ; Saxony, Ringleben (1), Schoenagel ; Würzburg, Rosenberger ; Bavaria, Bruns, Creutz, Heer, Mebs, Wüst ; Peine, Oelke ; Heligoland, Vauk & Bindig, Drost ; Berlin, Grosskopf (1).

Austria.—Corti (1), Tratz, Kepka, Schönbeck ; Carinthia, Klimsch, Zapf ; Linz, Mayer, Höninger.

Hungary.—Agárdi, Barthos, Beretz, Csaba, Csornai, Szilvka & Antal, Farkas, Sterbetz, Thóbiás, Vertse, Zádor, Csóka, Baboss, Hankó, Györfi, Lenner, Patkai, Stollman, Sámuel, Schmidt, E., Tolgyesi, Söregi, Csiba, Dörning, Festetics, Györy, Géreby, Keve, Marján, Schäfer, Heffel, Szilvka, Dudich & Kol, Beretsk & Schmidt, Horváth, Keve ; Kis-Balaton, Warga ; Hortobágy, Sövényi ; Lake Kisbalaton, Steffel ; Tisza, Beretz, Kárpáti.

Czechoslovakia.—Feriancova, Štěpánek ; Mlynany Arboretum, Sládek ; Moravia, Kux.

Yugoslavia.—Cornai, Kerić, Hughes & Sumerfield, Pelle, Postruzin, Rucner, Szilvka, Tutman.

Rumania.—Gá, Pascovschi & Nadra.

Italy.—Bassini, Crestvolant, Jany (1), Moltoni ; I. di Ustica, Ajola.

Greece.—Etchécopar (1) ; Corfu, Flach.

Turkey.—Etchécopar, Geesteranus.

Spain.—Flach (1), Schubert, Valverde (1).

Mediterranean.—Corsica, Knecht & Rost, Jöhrli ; Crete, Altner & Reger ; Malta, De Lucca.

Near East.—Levant, Horváth (3) ; Lebanon, Flach (2) ; Syria, Kumerloev (2) ; Israel, Zeira ; Haifa, Hovel.

Middle East.—Iran, Passburg ; Jordan, Hollom ; Iraq, Harrison, J. M. ; Iraq, Johnson, L. R., Sage ; Aden, Sage (4).

China.—Manchuria, Piechocki ; Southern Yunnan, Ivanov ; Shanghai, Li & others.

Japan.—Ishizawa, Izumi, Kobayashi, Morioka, Sugizaki ; Hokkaido, McClure & Yoshii ; Izu Is., Moyer.

North Africa.—Libyan Desert, Al-Hussaini ; Tangier, Brudenell-Bruce ; Morocco, Bierman, Brosset, Meise (1), Pasteur, Frété, Panouse, Robin ; Mauritania, Naurois ; Tibesti Mts., Tuck, R. F. ; Sahara, Roche, Tuck, R. F. (1) ; Spanish Sahara, Valverde.

Atlantic Islands.—Canary Is., Hemmingsen.

AUSTRALIAN REGION and POLYNESIA

Australian Commonwealth.—Carrick, Frith, Keast, Miles, Gibson & Sefton, Jack, McGill, Wakefield, Warham ; Western Australia, Ford &

Teague (1), Jenkins, C. F. H., Slater, Watson, J. A. L. ; Queensland, Bravery, Kennedy, Bravery & Orrell, Sharland, Wheeler, R., Liddy ; Willis I., Queensland, Serventy, V. ; Victoria, Bedgood, Wood, P. J. ; New South Wales, Davies, S. J. J. F., Frith & Tilt, Gibson & Sefton, Gwynne & Gray, Hobbs, Sefton ; Sydney, N.S.W., Hindwood & McGill ; South Australia, Boehm, Schodde ; Rott-nest I., Serventy & Storr ; Tasmania, Bolger.

New Zealand.—Alcris, Falls, Gillham, Dawson, E. W., Andrew, Bull, P. C., Falla, Fleming, Kinsky, Scarlett, Sibson, Soper, Phillips, Small & Soper ; Northland, Michie ; Southern Fiordland, Riney & others ; Chatham Is., Dawson (4), Lindsay, Phillips ; White I., Wodzicki & Robertson ; Poor Knights I., Chambers, Kinsky & Sibson ; Hen I., King, S. A.

Pacific Islands.—Wake I., Bryan ; Papuan Islands, Ripley (2) ; New Guinea, Keast (2).

ETHIOPIAN REGION

West Africa.—Senegal, Roux (1) ; Arguin banks, near Cape Verd, Balsac & Mayaud ; French Guinea, Berlioz ; Portuguese Guinea, Frade & Bacelar ; Sokoto, Nigeria, Dobbs ; Ennedi, Nord-Tschad, Kollmannsperger ; Belgian Congo, Schouteden ; Gabon, Berlioz (7).

Atlantic Islands.—Ascension I., Stonehouse.

South Africa.—Anon., Brooke, Connell, Clancey, Little, Winterbottom (11) ; Bloemhof, Merwe & Winterbottom ; Cape Province, Hall, K. R. L., Calder, Taylor, L., Winterbottom (5) (7) ; Orange River Estuary, Grindley ; Namaqualand, Winterbottom (6) ; Southern Rhodesia, Smithers, Irwin & Paterson, Took ; Chimanimani Mts., S. Rhodesia, Masterson & Child ; Bulawayo, Harwin ; South West Africa, Clancey (13).

Central and East Africa.—Kittenberger ; Northern Rhodesia, Benson (3), Winterbottom (4) ; Nyassaland, Long, R. C. ; Kenya, North, Parsons, Bednall ; Nairobi, Kenya, Williams, J. G. ; Mozambique, Frade & Pinto, Pinto & Lamm ; Zanzibar, Pakenham.

ORIENTAL REGION

Indian Peninsula and Ceylon.—Duars, Inglis ; Kutch, Himmatsinhji ; Ceylon, Phillips, W. W. A. (1).

Malaysia.—Malacca, Batchelor.

Indonesia.—Western Siam, Fluiter ; Korea, Fennell, Won & Woo ; Philippine Is., Parkes & Amadon, Rand [& others] ; Schauensee & Pont ; Cebu, Philippine Is. Rabov.

Pacific Islands.—Borneo, Harrison, Harrison & Smythies ; Timor, Bacelar.

NEOTROPICAL REGION

Central America.—Panama, Wetmore (2).

West Indies.—St. Croix, Virgin Is., Seaman ; Trinidad, Coursen.

Pacific Islands.—Galapagos Is., Dorst.

South America.—Venezuela, Gilliard (1), Cuello, Phelps (1) (2), Yépez ; Ecuador, Marchant ; Colombia, Olivares, Schauensee ; Brazil, Novaes, Ruschi, Sick (1), Stager ; Peru, Blake, E. R., Koepecke, Sánchez ; Uruguay, Escalante ; Argentina, Oloeg, Bo ; Chile, Belton, Valenzuela ; Cape Horn, Rüe.

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NEARCTIC REGION including MEXICO

Mexico.—Baja California, Davis, J. ; Catemaco Basin, southern Veracruz, Edwards & Tashian ; Clipperton I., Howell (1) ; Coahuila, Urban ; Jalisco, Selander & Giller (1) ; Oaxaca, Berlioz (4) ; Zacatecas, Webster.

U.S.A. Pacific Coast and Rocky Mts.—Oregon, Du Bois, Marshall, D. B. ; California, Gardner, Johnson, M. E., Small, Morley, Murrell, Small, Stott, Stott & Sams, Yocom ; San Diego, California, Sams & Stott ; Nevada, Gullion, Pulich & Evenden, Johnson & Banks ; Montana, Hoffman, R. S., Hand & Wright, Walker ; Colorado, Knorr.

U.S.A. South Western.—Arizona, Levy ; New Mexico, Campbell, J. M., Montgomery, Rickard ; Texas, Fritz, Hall, C. E. & others, Miller, F. W., Reeves ; Oklahoma, Tomer.

U.S.A. North Central.—Ohio, Sheppard ; Michigan, Zimmerman & Van Tyne ; Minnesota, Allin, Lupient, Schmid, Schmittz & Bremer ; Lyon County, Kansas, Clarke, Breukelman & Andrews.

U.S.A. South Eastern.—South Carolina, Dawn (1) ; Tennessee, Farmer ; Florida, Hamon, Monroe, B. L., Jr.

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Canada.—Godfrey ; Quebec, Arnold ; Baffin I., Macpherson & McLaren ; Bylot I., Van Tyne & Drury ; Ungava Peninsula, Harper ; Thunder Bay, Ontario, Denis ; Nova Scotia, Godfrey, Tufts, Scott, D. M. ; Newfoundland, Tordoff & Southern ; Northwest Territories, Höhn ; British Columbia, Erskine (1), Guiguet, Paul ; Vancouver I., Mitchell.

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